Application No.: 10/046,278 Attorney Docket No.: 06478.1463-00

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

- 7. (Currently Amended) A method of prophylaxis for a disorder eaused characterized by angiogenesis or arteriogenesis comprising administering active antithrombin III to a patient in need thereof.
- 8. (Currently Amended) A method of treating a disorder caused characterized by angiogenesis or arteriogenesis comprising administering active antithrombin III to a patient in need thereof.
- 9. (Previously Presented) The method as claimed in claim 7 or 8, wherein the α isoform of antithrombin III, the β isoform of antithrombin III, a mixture of the two isoforms, or a concentrate of antithrombin III, is administered.
- 10. (Currently Amended) The method as claimed in claim 7 or 8, wherein the disorder is a retinopathy, neuropathy, or an infectious disease such as leprosy.
- 11. (Previously Presented) The method as claimed in claim 7 or 8, wherein the disorder is a cancer.
- 12. (Previously Presented) The method as claimed in claim 11, wherein the cancer is a cancerous ulcer or a metastasis of cancerous ulcer.

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13. (Previously Presented) The method as claimed in claim 7 or 8, wherein the disorder is rheumatoid arthritis, psoriasis, endometriosis, chronic bronchitis, or a chronic inflammation of the gastrointestinal tract.

- 14. (Previously Presented) The method as claimed in claim 7 or 8, wherein the antithrombin III is prepared recombinantly or transgenically.
- 15. (Previously Presented) The method as claimed in claim 7 or 8, wherein the antithrombin III is administered intravenously, subcutaneously, intramuscularly or topically.
- 16. (New) The method as claimed in claim 10, wherein the infectious disease is leprosy.